

IN THE CLAIMS:

The following is a complete listing of claims in this application.

Claims 1-33 (canceled).

34. (new) A carrier for structural parts to be subjected to a heat-treatment process, comprising:

at least one frame comprising a plurality of limbs, and
a lattice comprising intersecting strands extending from the frame,

wherein the frame comprises a temperature-resistant material and the strands are formed of carbon fibers or ceramic fibers which form the lattice extending from the limbs,

the lattice being formed by a section of an endless fiber bundle extending between limbs of the frame in the form of single-layer or multilayer fiber strands or intertwined yarns of a carbon-reinforced carbon material and/or ceramic material, the fiber bundle extending in a warp and woof-like woven structure between the limbs of the frame.

35. (new) The carrier according to claim 34, wherein the limbs of the frame extend at a right angle to the plane formed by the lattice.

36. (new) The carrier according to claim 35, wherein the carrier comprises a plurality of frames forming a three-dimensional body and has a basket geometry.

37. (new) The carrier according to claim 34, wherein the limbs have recesses in longitudinal edges thereof, sections of the fiber bundle passing through said recesses to mount the lattice.

38. (new) The carrier according to claim 37, wherein the recesses form a ridge-like geometry in the respective longitudinal edge of the limb of the frame.

39. (new) The carrier according to claim 34, wherein the limbs of the frame have openings through which the fiber bundle passes.

40. (new) The carrier according to claim 34, wherein the fiber bundle laid in the woven structure extends under prestress between the limbs.

41. (new) The carrier according to claim 34, wherein the frame is integrally cut out of a carbon fiber-reinforced carbon plate.

42. (new) The carrier according to claim 34, wherein the limbs forming the frame are joined together by means of plug connections.

43. (new) The carrier according to claim 34, wherein the base of the frame or limbs thereof is a pyrolyzed fiber preform produced by means of TFP technology.

44. (new) The carrier according to claim 34, wherein the frame comprises a section or sections separated by means of water jet cutting from a carbon fiber-reinforced carbon plate.

45. (new) The carrier according to claim 34, wherein the fiber is formed of a material selected from the group consisting of Al_2O_3 , SiC, BN, C and combinations thereof.

46. (new) The carrier according to claim 34, wherein the lattice has a matrix which comprises a material selected from the group consisting of carbon, B_4C , Al_2O_3 , SiC, Si_3N_4 , mullite and combinations thereof.

47. (new) The carrier according to claim 46, wherein the matrix is separated from the gas phase or formed by pyrolysis of a precursor material.

48. (new) The carrier according to claim 47, wherein the precursor material is selected from the group consisting of phenolic resin, furan resin, a Si precursor and combinations thereof.

49. (new) The carrier according to claim 34, wherein at

least the lattice comprises a coating selected from the group consisting of oxides, nitrides and carbides of the third and fourth main group of the periodic table, oxides, nitrides and carbides of the third to sixth subgroup of the periodic table, carbon and combinations thereof.

50. (new) The carrier according to claim 34, wherein the frame comprises carbon fiber-reinforced carbon, fiber ceramic or graphite.

51. (new) The carrier according to claim 34, wherein the carrier has a parallelepiped geometry open on one side with bottom and side frames which are each holders for a lattice.

52. (new) The carrier according to claim 51, wherein the frame is constructed such that at least one of the following applies:

an upper limb of each side frame is a flat element,
a lower limb of each side frame is an angular element,
and

limbs at a right angle thereto are each a round element.

53. (new) The carrier according to claim 52, wherein the flat element forms with a flat side thereof, a plane substantially in which the lattice fixed by the frame extends.

54. (new) The carrier according to claim 52, wherein the respective flat element of the side frame passes over in a flush manner into the respective front end of a round element on the outer longitudinal peripheral side.

55. (new) The carrier according to claim 52, wherein adjoining flat elements of substantially rectangular abutting frames are connected via a plug connection which, in turn, extends within one said round element.

56. (new) A method for producing a structural part comprising intersecting strands of carbon fibers or ceramic fibers comprising obtaining a frame having one or more limbs, mounting on the frame an endless fiber bundle in the form of

single-layer or multilayer fiber strands or intertwined yarns as strands to form a desired lattice structure, inserting a matrix is into the fibers and removing the lattice from the frame.

57. (new) The method according to claim 56, wherein the lattice is separated from sections thereof extending from the frame.

58. (new) The method according to claim 56, wherein the matrix is formed by at least one of separating from a gas phase and pyrolysis of at least one precursor material.

59. (new) The method according to claim 56, wherein the lattice is coated on a surface thereof prior to or after removal of the lattice from the frame.

60. (new) The method according to claim 56, wherein the fiber strands are of a material selected from the group consisting of Al_2O_3 , SiC, BN, C and combinations thereof.

61. (new) The method according to claim 56, wherein the matrix is a material selected from the group consisting of carbon, B_4C , Al_2O_3 , SiC, Si_3N_4 , mullite and combinations thereof.

62. (new) The method according to claim 59, wherein the lattice is surface-coated with a coating selected from the group consisting of oxides, nitrides and carbides of the third and fourth main group of the periodic table, oxides, nitrides and carbides of the third to sixth subgroup of the periodic table, carbon and combinations thereof.